Robust Electric Aerial Instrument Platform for Volcanic Environments, Phase I

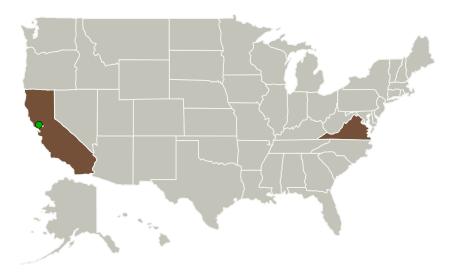
Completed Technology Project (2011 - 2011)



Project Introduction

The innovation proposed for research, and evaluation, and maturation is that of a new class of small Unmanned Air Systems (UAS) with increased payload capability, which may be well suited for use as an aerial payload platform in harsh, remote environments. In specific, the innovation proposed is the use of a hybrid structure in an electric man-portable UAS for scientific use. The fabrication techniques to be investigated in Phase 1 will also lead to a unique and repeatable lean airframe manufacturing process.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Туре	Location
Vanilla Aircraft, LLC	Lead Organization	Industry	Falls Church, Virginia
Ames Research Center(ARC)	Supporting Organization	NASA Center	Moffett Field, California

Primary U.S. Work Locations	
California	Virginia



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Small Business Innovation Research/Small Business Tech Transfer

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Project Transitions

February 2011: Project Start



September 2011: Closed out

Closeout Documentation:

• Final Summary Chart(https://techport.nasa.gov/file/138468)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Vanilla Aircraft, LLC

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

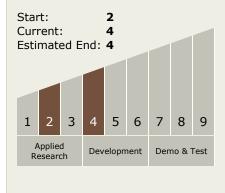
Program Manager:

Carlos Torrez

Principal Investigator:

Neil Boertlein

Technology Maturity (TRL)





Small Business Innovation Research/Small Business Tech Transfer

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Technology Areas

Primary:

 TX16 Air Traffic Management and Range Tracking Systems
 TX16.1 Safe All Vehicle Access

Target Destinations

The Moon, Mars, Outside the Solar System, The Sun, Earth, Others Inside the Solar System

